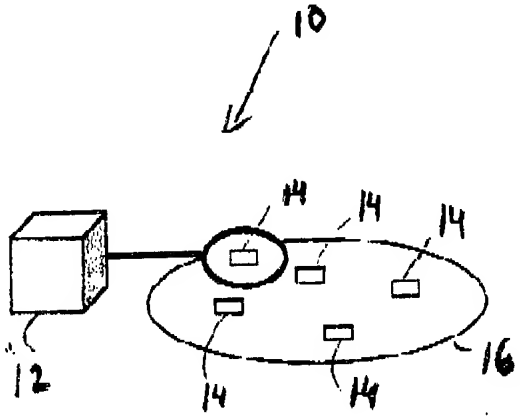

FIGURE 1

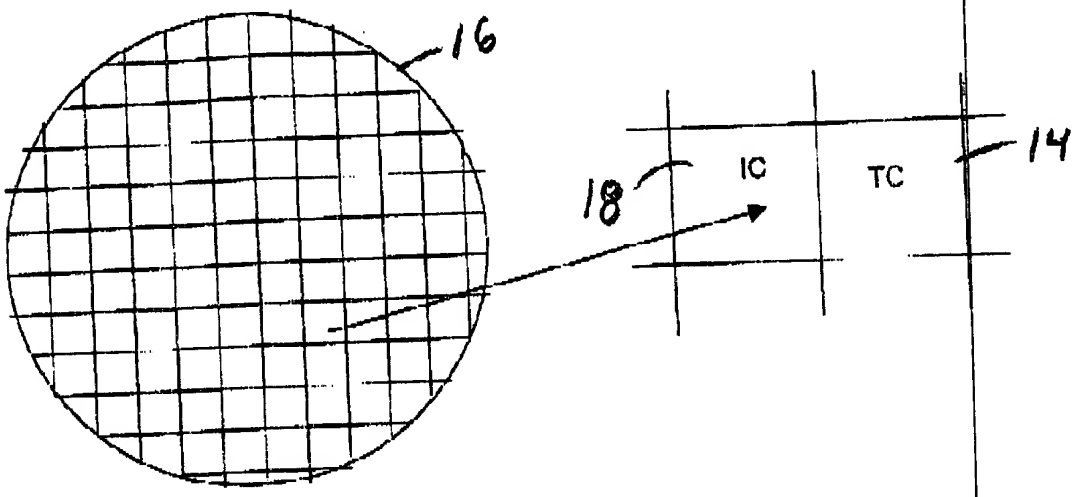

FIGURE 2

Document : US5776636

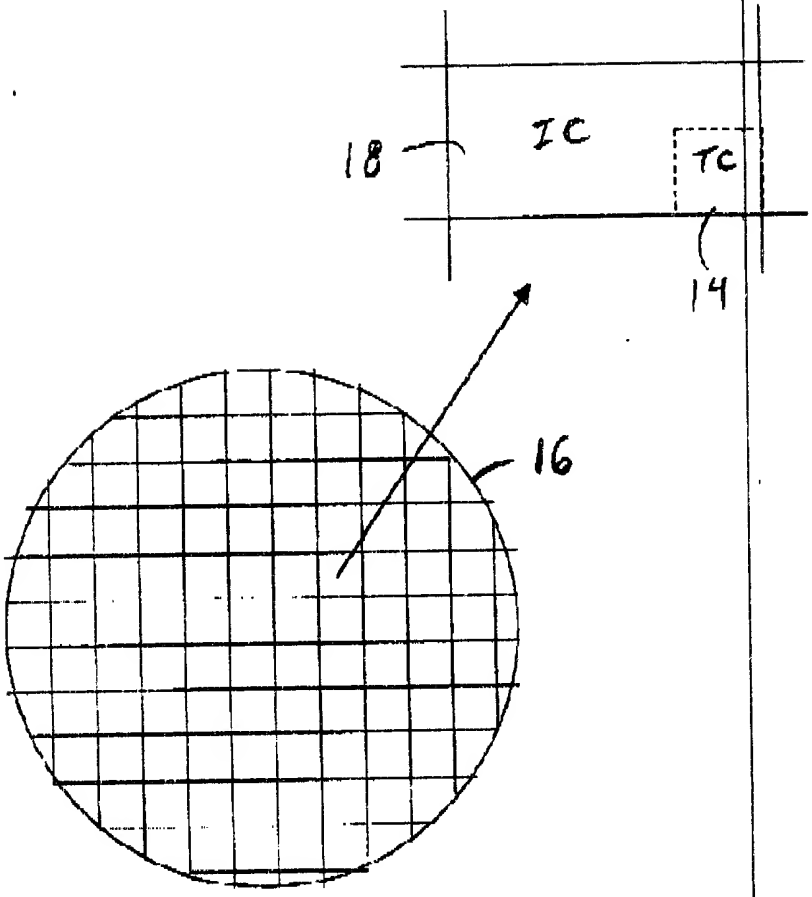

FIGURE 3

4605504 05/14/04

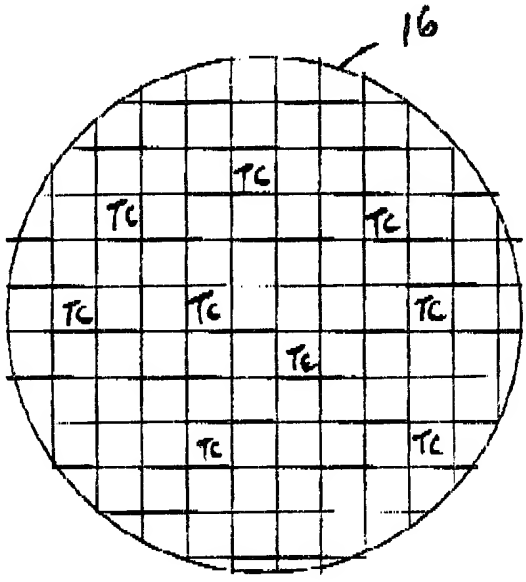

FIGURE 4

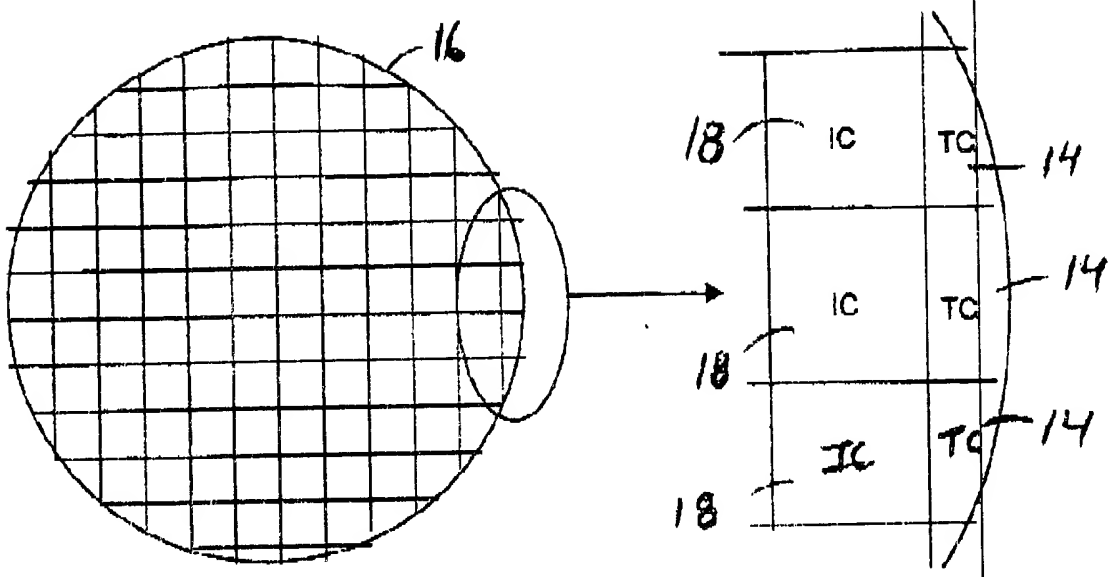

FIGURE 5

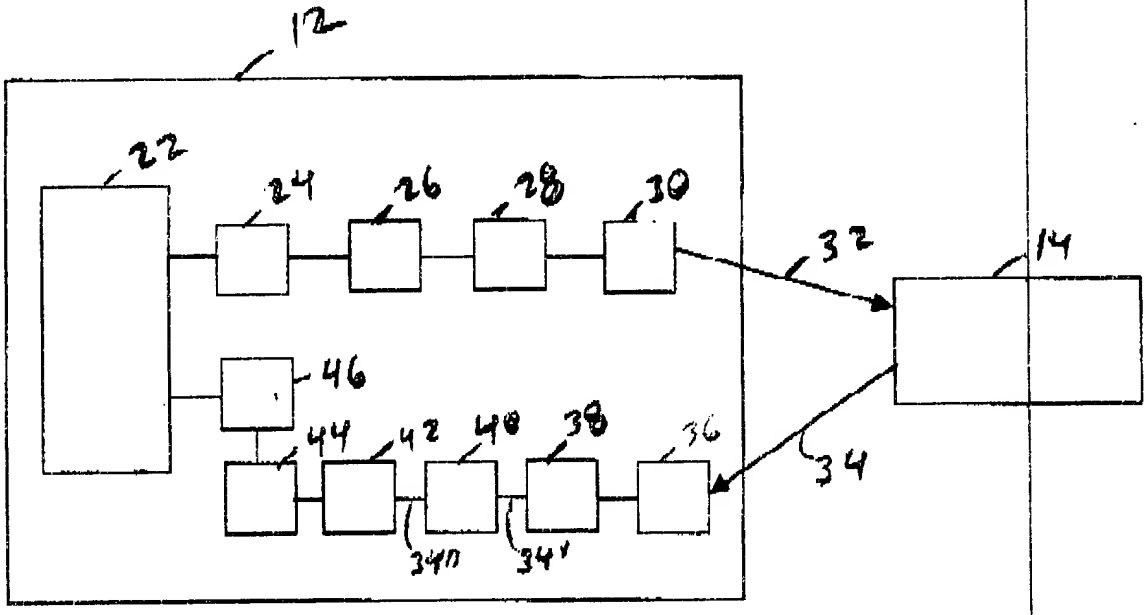

FIGURE 6

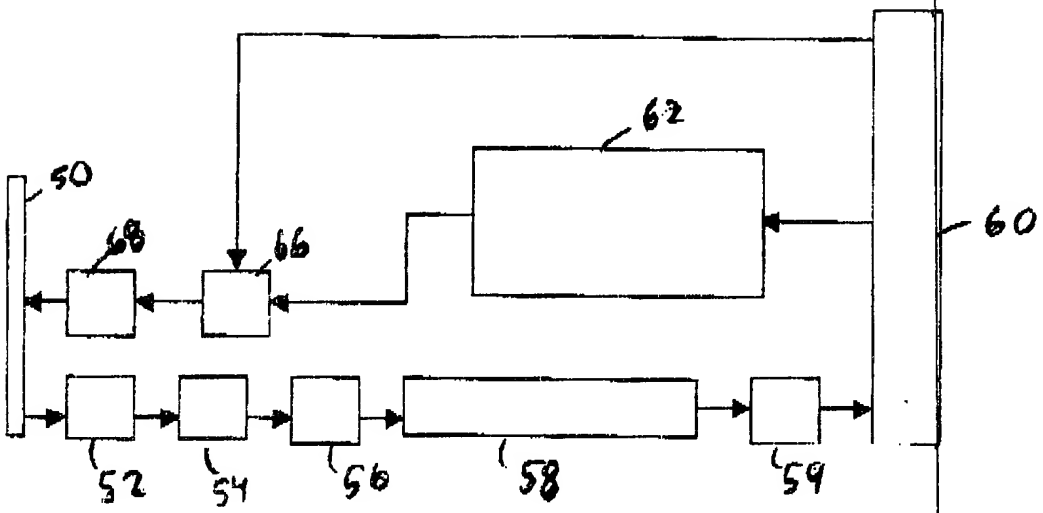

FIGURE 7.

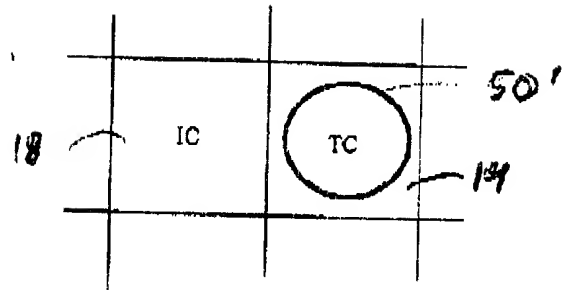

FIGURE 8

Document ID: US 6,055,504 A1

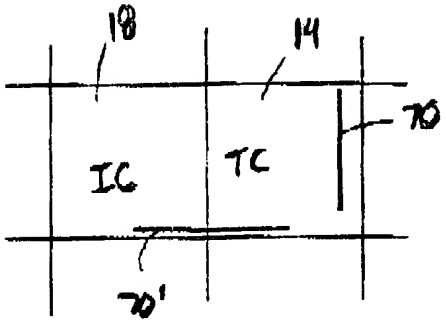

FIGURE 9a

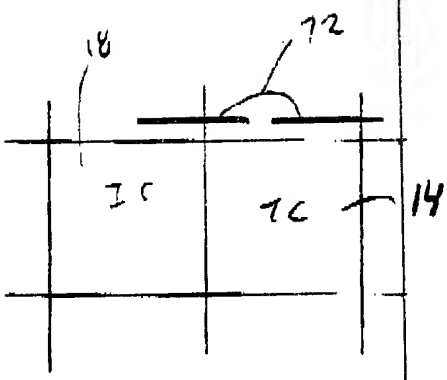

FIGURE 9b

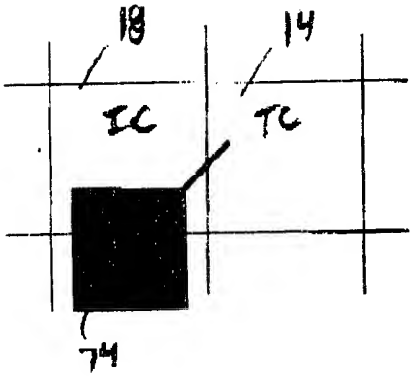

FIGURE 9c

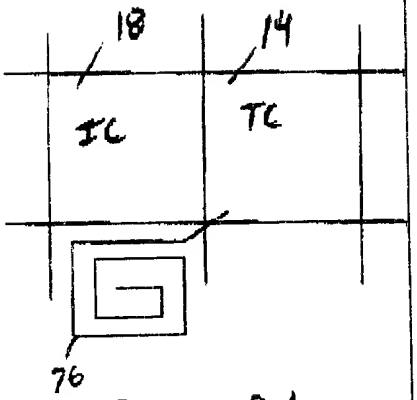

FIGURE 9d

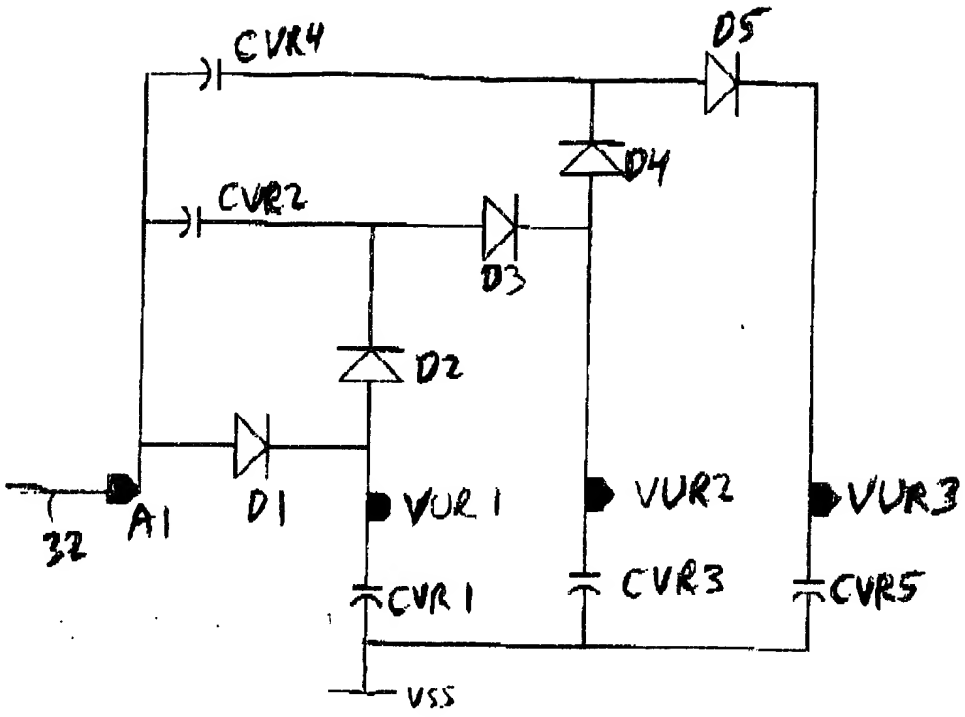

FIGURE 10.

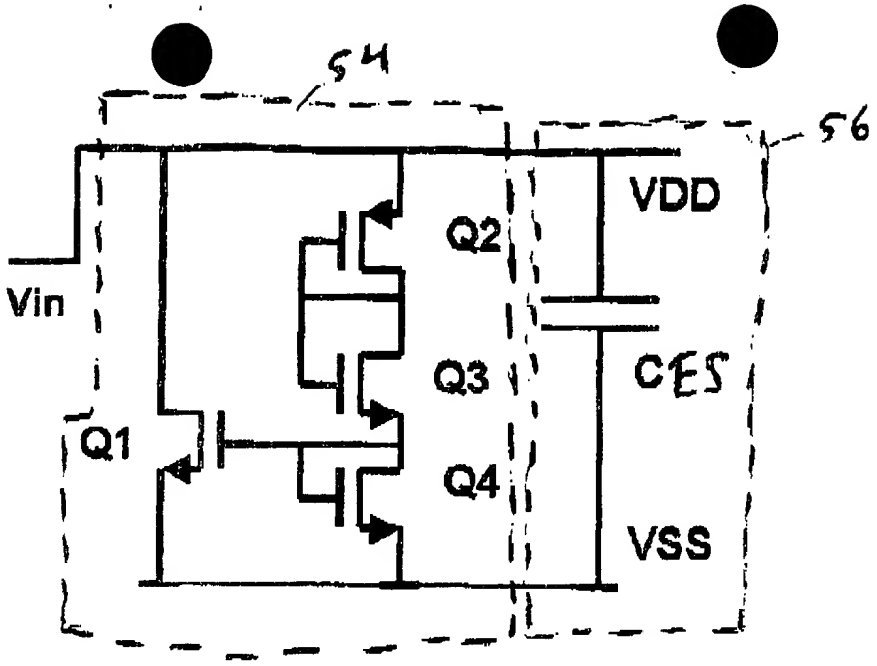

FIGURE 11

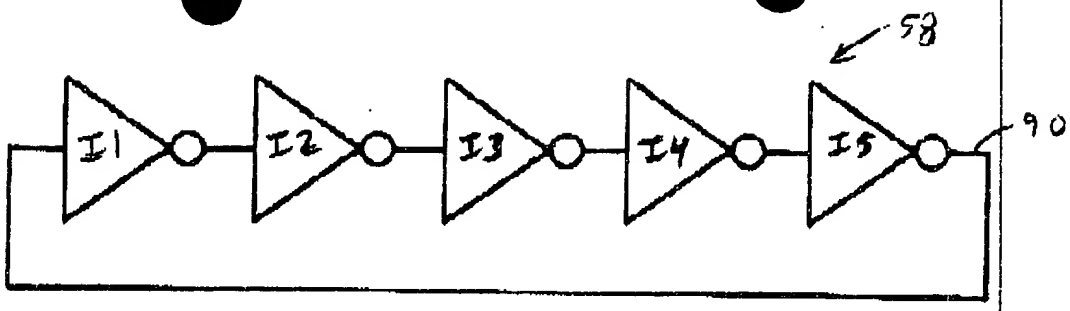

FIGURE 12

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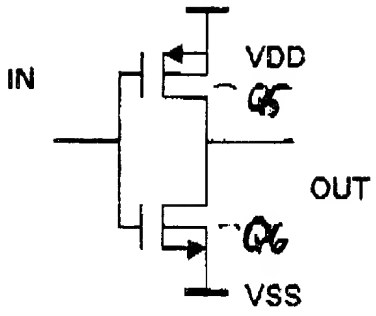

FIGURE 13

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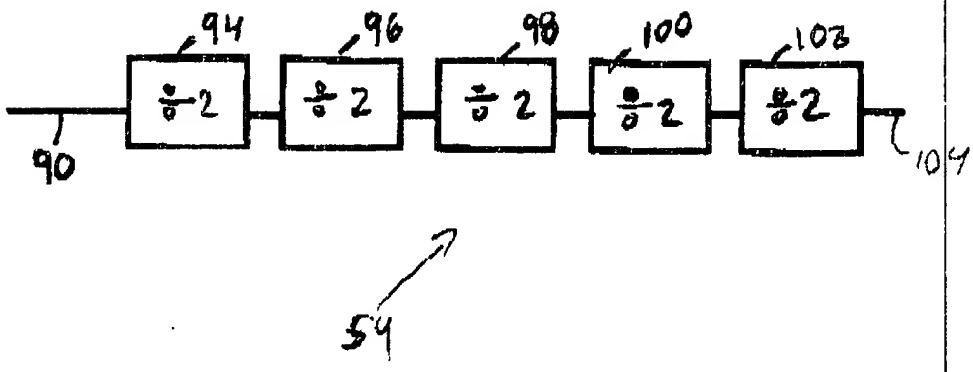

FIGURE 14

95540905 - 054504

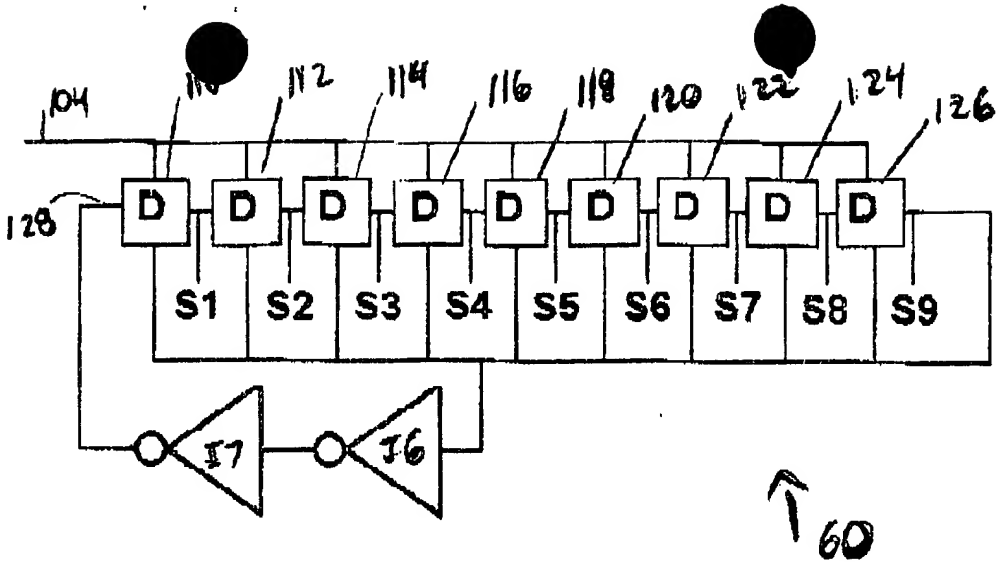
104
110
112
114
116
118
120
122
124
126
128
D
D
D
D
D
D
D
D
D
S1
S2
S3
S4
S5
S6
S7
S8
S9
I7
I6
60

FIGURE 15

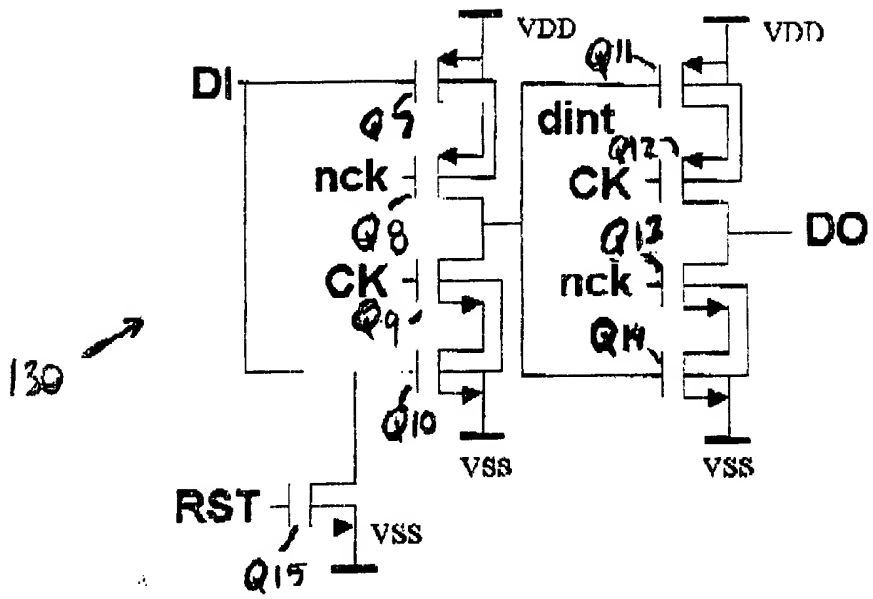
VDD
VDD
DI
Q5
dint
Q11
Q12
nck
CK
DO
Q8
Q13
CK
nck
Q9
Q14
130
Q10
VSS
VSS
RST
VSS
Q15

FIGURE 16

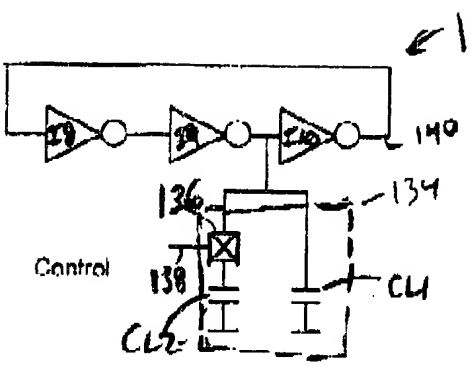

FIGURE 17a

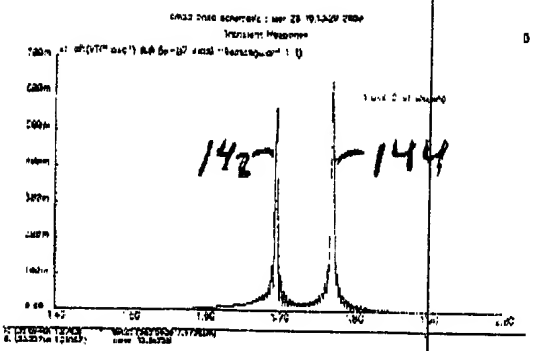

FIGURE 17b

05054505 : 05 Jul 05

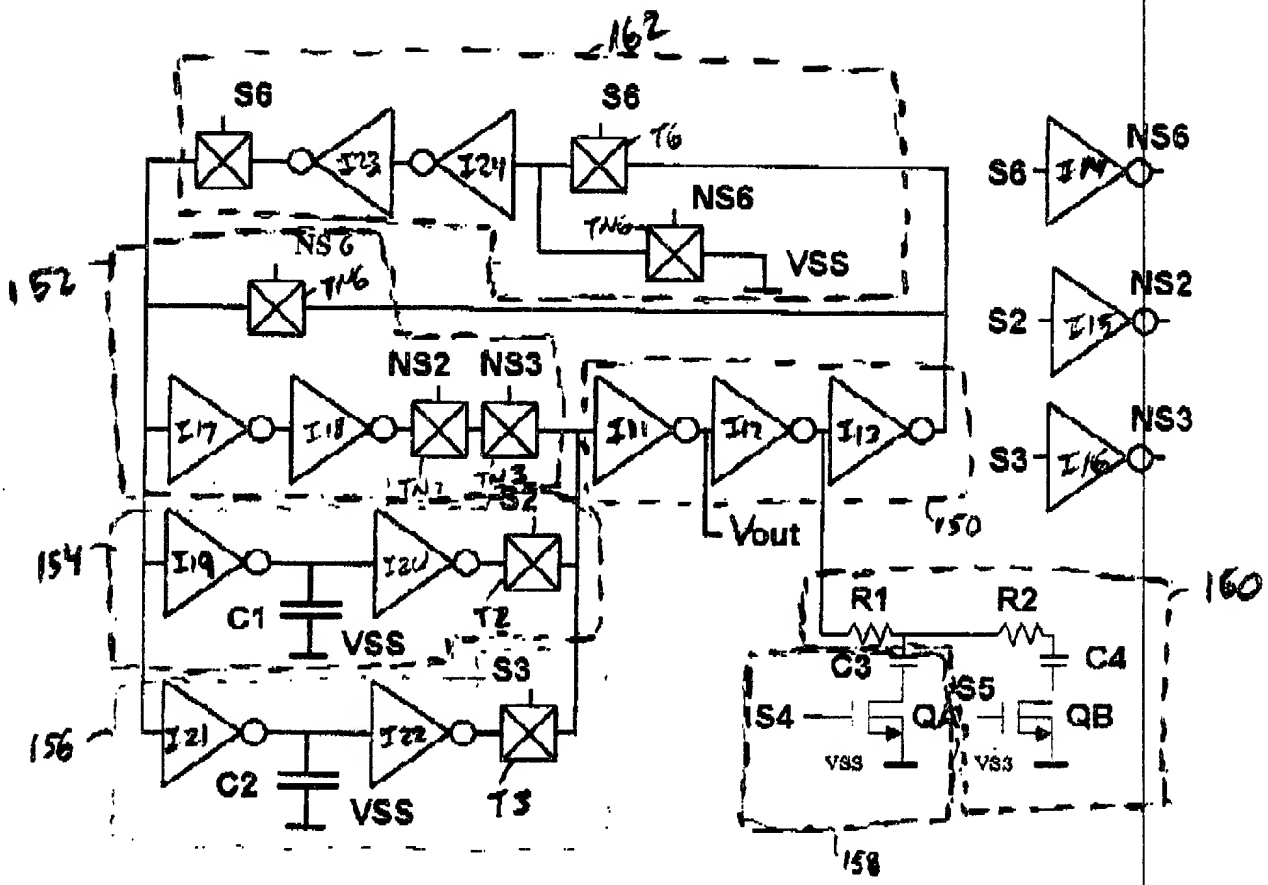
162
S6
S6
T6
NS6
TN6
VSS
NS6
TN6
152
NS2
NS3
I17
I18
I11
I12
I13
TN2
TN3
S2
Vout
150
154
I19
I20
C1
VSS
T2
S3
156
I21
I22
C2
VSS
T3
S6
IN
NS6
S2
I15
NS2
S3
I16
NS3
160
R1
R2
C3
C4
S4
QA
S5
QB
VSS
VSS
158

Figure # 18

62

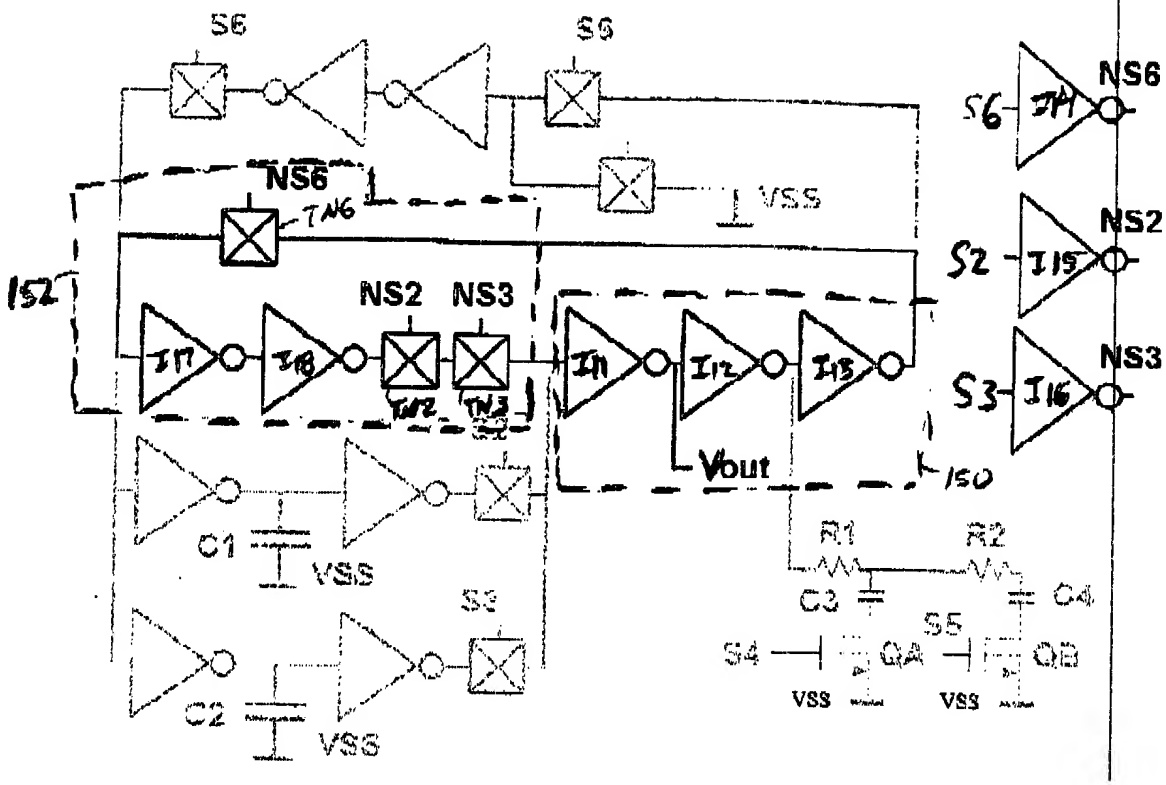

FIGURE 20

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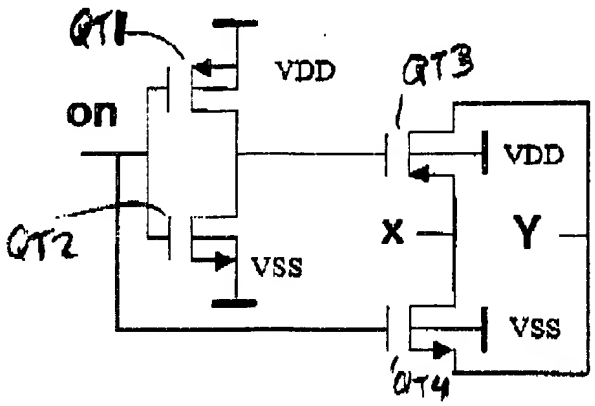

164

FIGURE 19

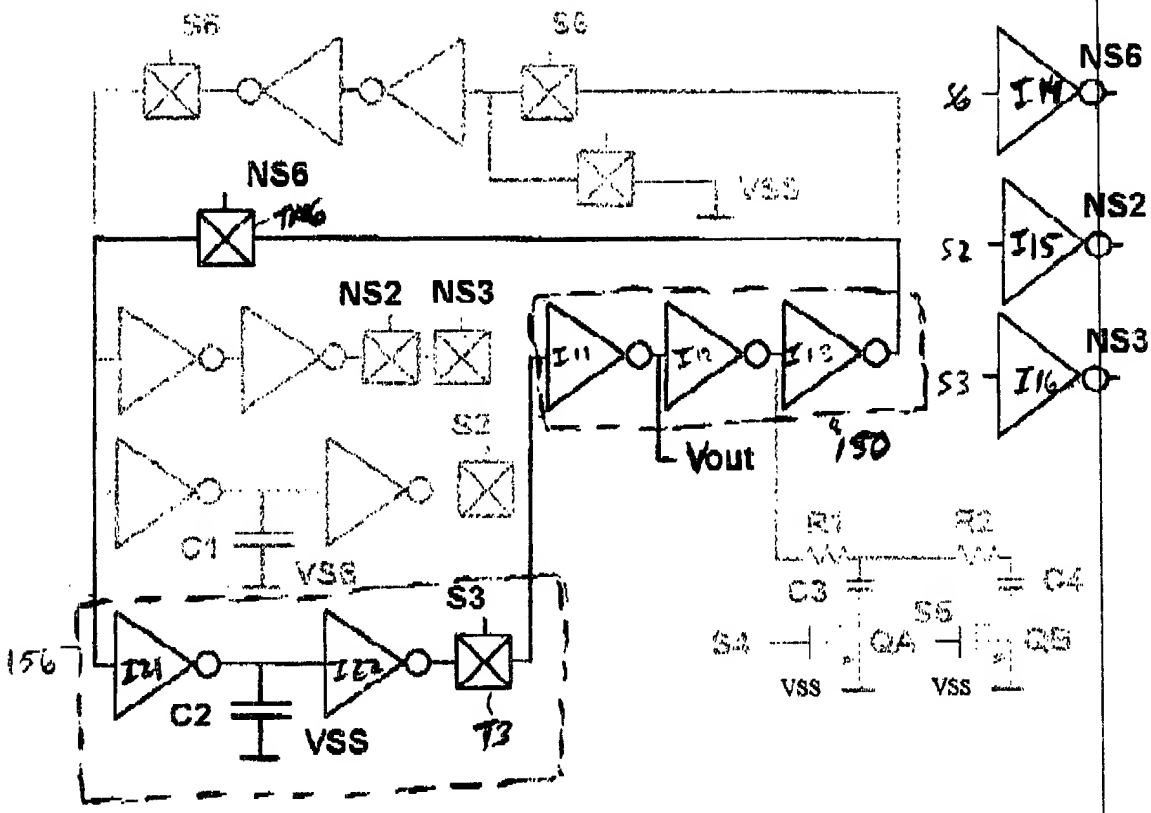
S6
S6
NS6
VSS
NS2
NS3
S2
C1
VSS
S3
156
C2
VSS
T3
Vout
150
S6
NS6
S2
NS2
S3
NS3
R1
R2
C3
C4
S5
S4
Q4
Q5
VSS
VSS

FIGURE 22

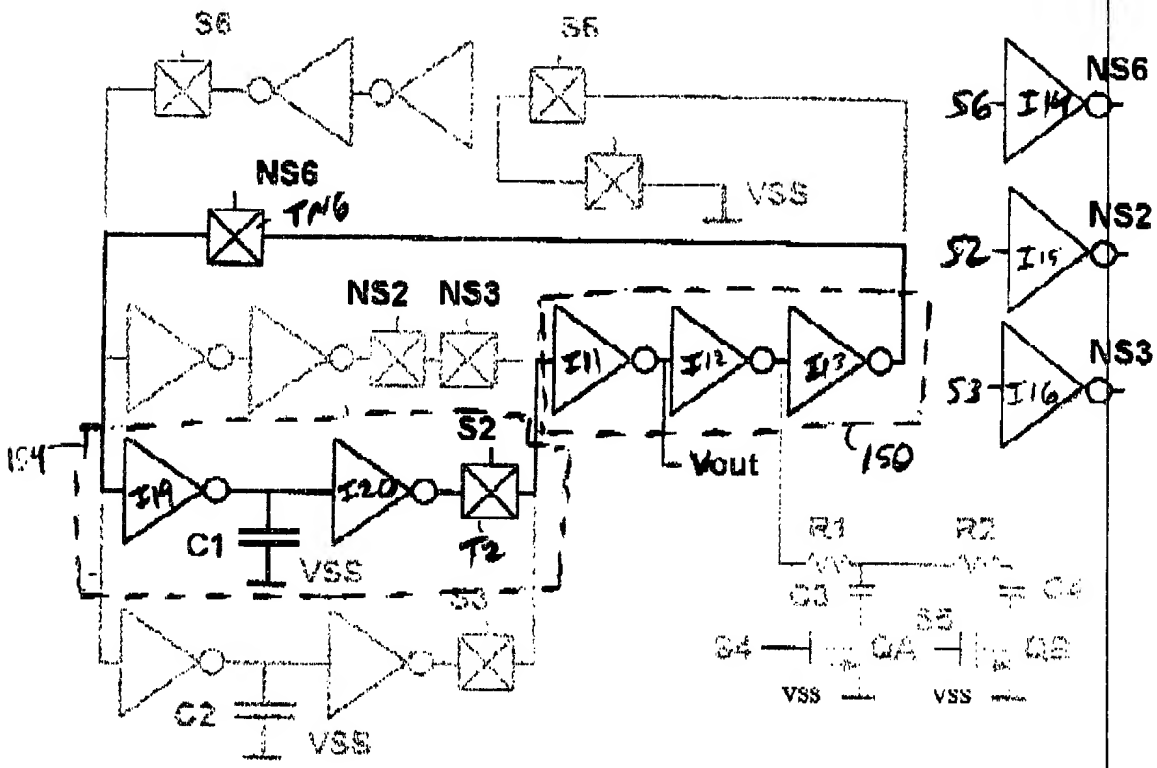
S6
S6
NS6
TN6
VSS
NS6
S6
I14
NS2
S2
I15
NS3
S3
I16
NS2
NS3
I11
I12
I13
S2
I19
I20
I4
Vout
150
C1
VSS
T2
S3
R1
R2
C3
C4
S5
Q4
Q5
VSS
VSS
C2
VSS

FIGURE 21

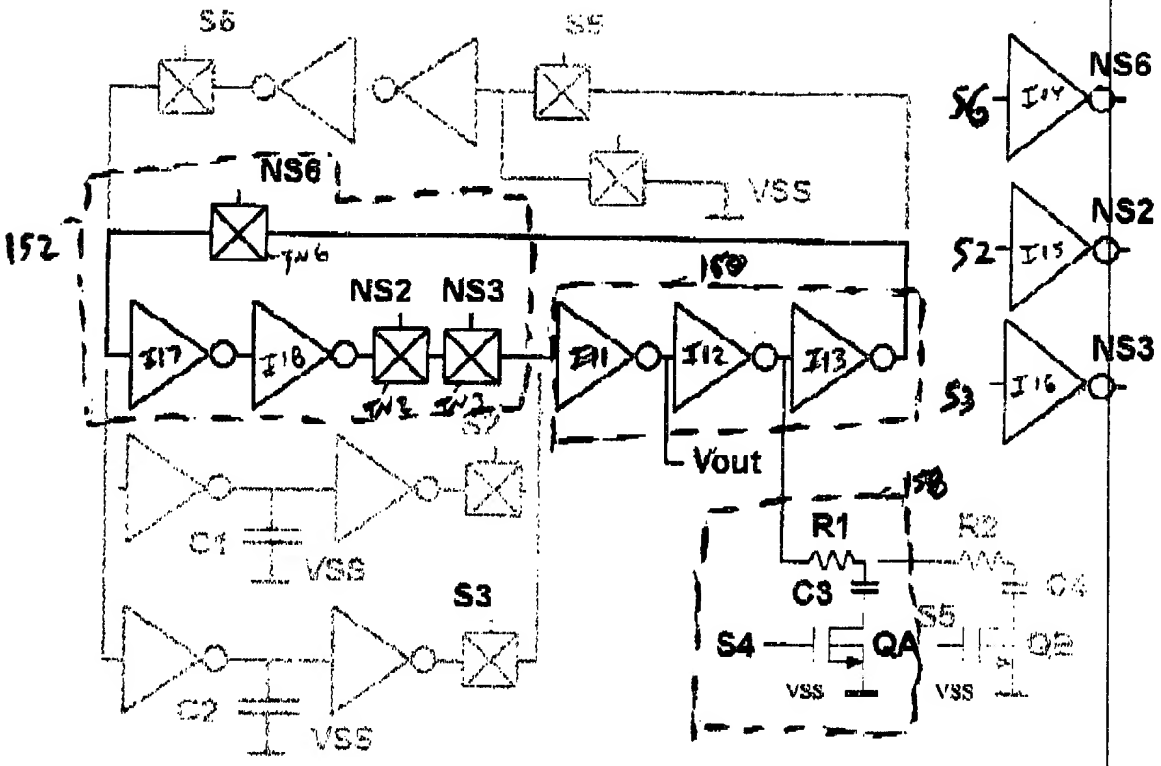
S6
S5
NS6
VSS
152
NS2
NS3
I17
I18
I11
I12
I13
Vout
C1
VSS
S3
C2
VSS
R1
R2
C3
C4
S4
QA
S5
QB
VSS
VSS
S6
I14
NS6
S2
I15
NS2
S3
I16
NS3

FIGURE 23

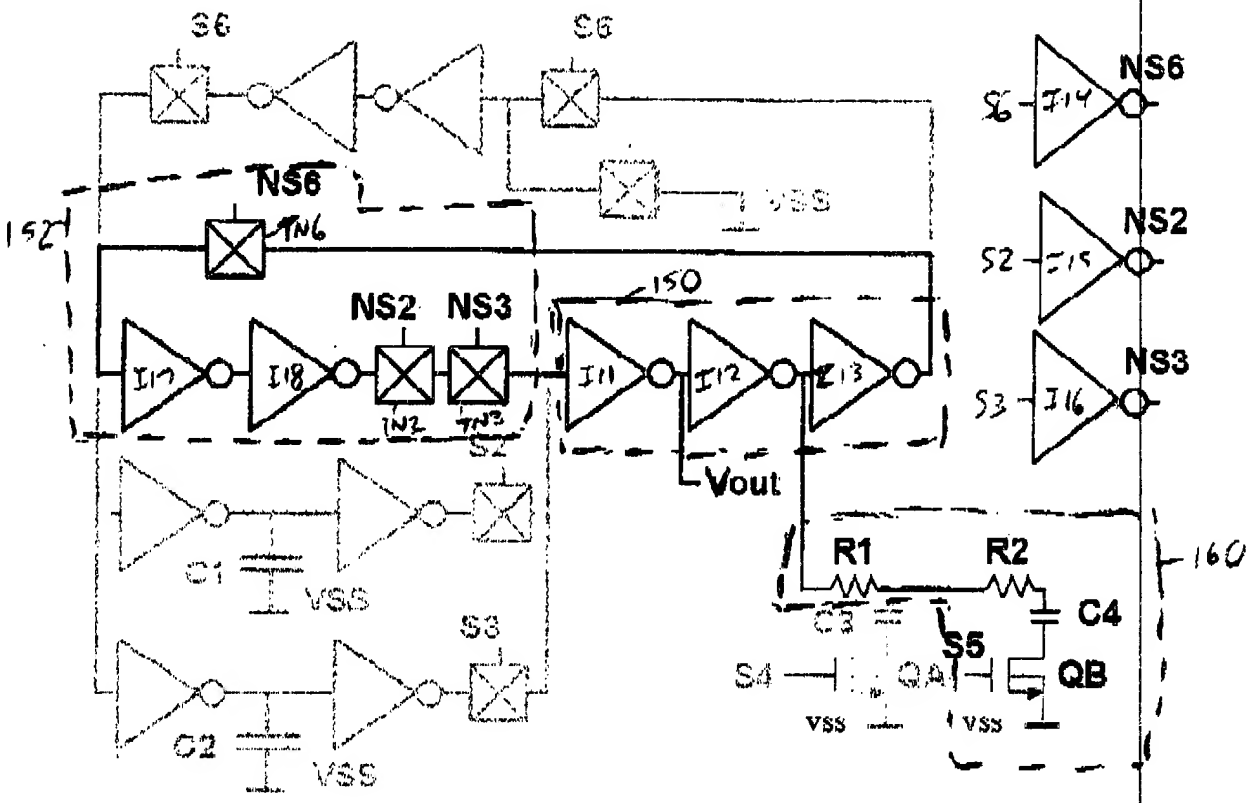

FIGURE 24

Express Mail Label No. EV 339 750 775 US

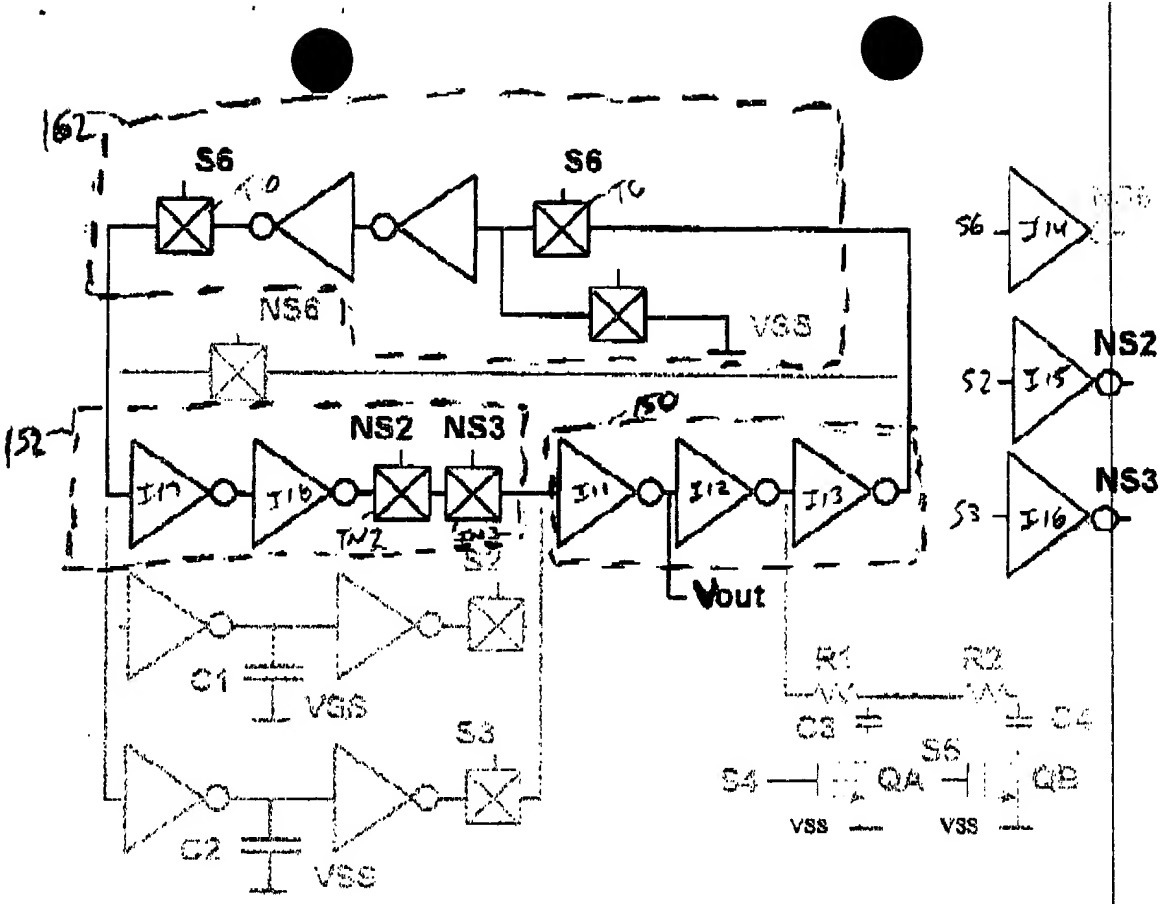
162
S6
S6
NS6
VSS
NS2
NS3
152
150
I17
I16
I11
I12
I13
TN2
S2
Vout
C1
VSS
S3
C2
VSS
S6
I14
S2
I15
NS2
S3
I16
NS3
R1
R2
C3
C4
S4
QA
S6
QB
VSS
VSS

FIGURE 25

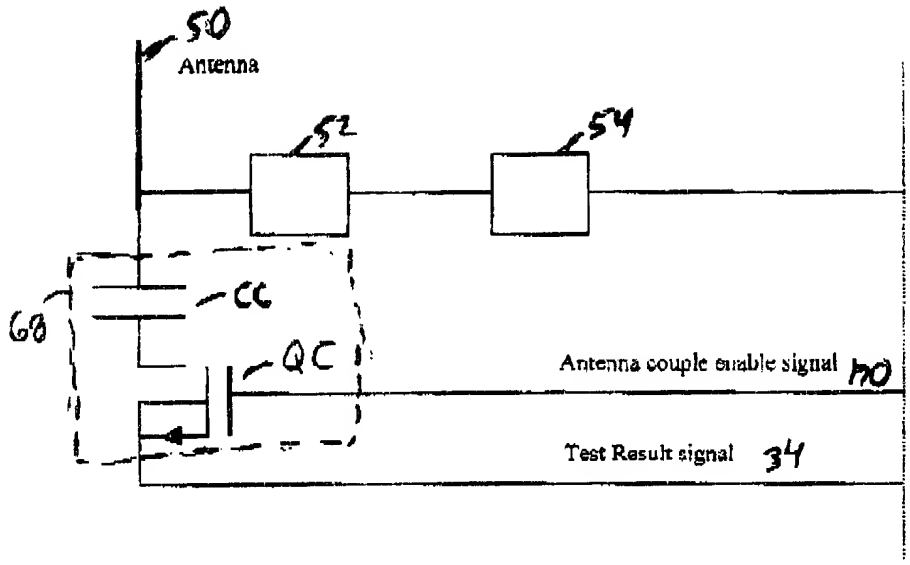
50
Antenna
52
54
68
CC
QC
Antenna couple enable signal 70
Test Result signal 34

FIGURE 26

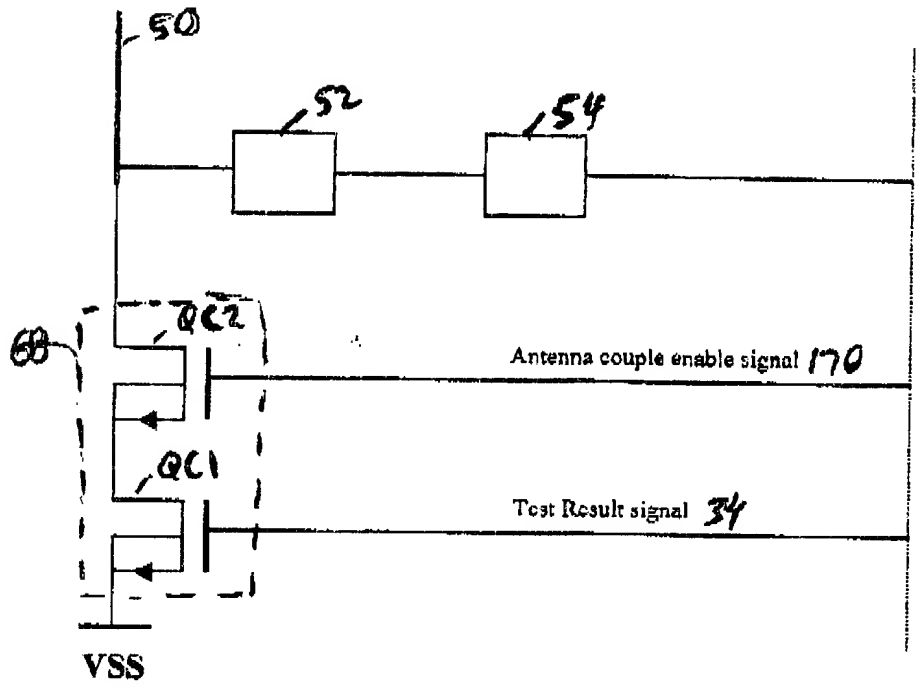
50
52
54
60
QC2
Antenna couple enable signal 170
QC1
Test Result signal 34
VSS

FIGURE 27

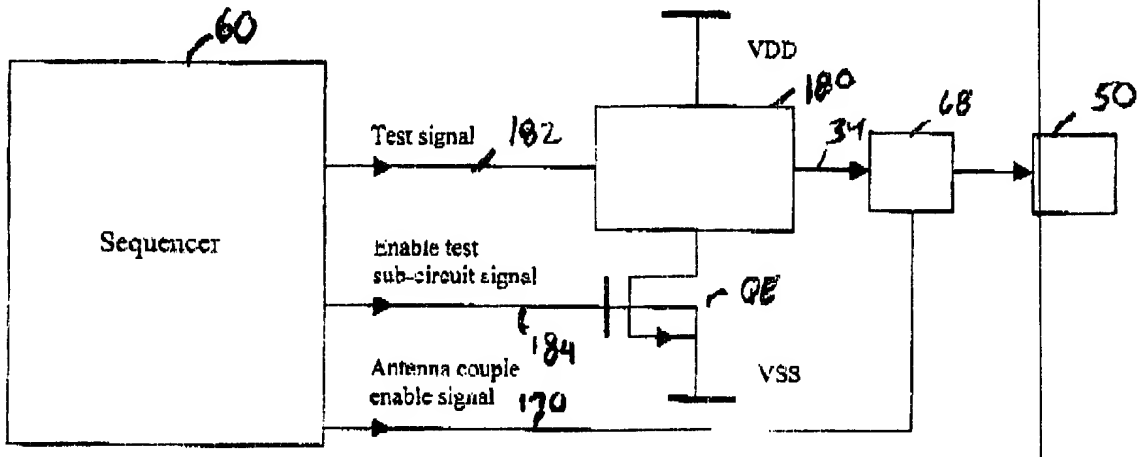
60
Sequencer
Test signal
182
Enable test
sub-circuit signal
184
Antenna couple
enable signal
170
VDD
180
QE
VSS
34
68
50

FIGURE 28

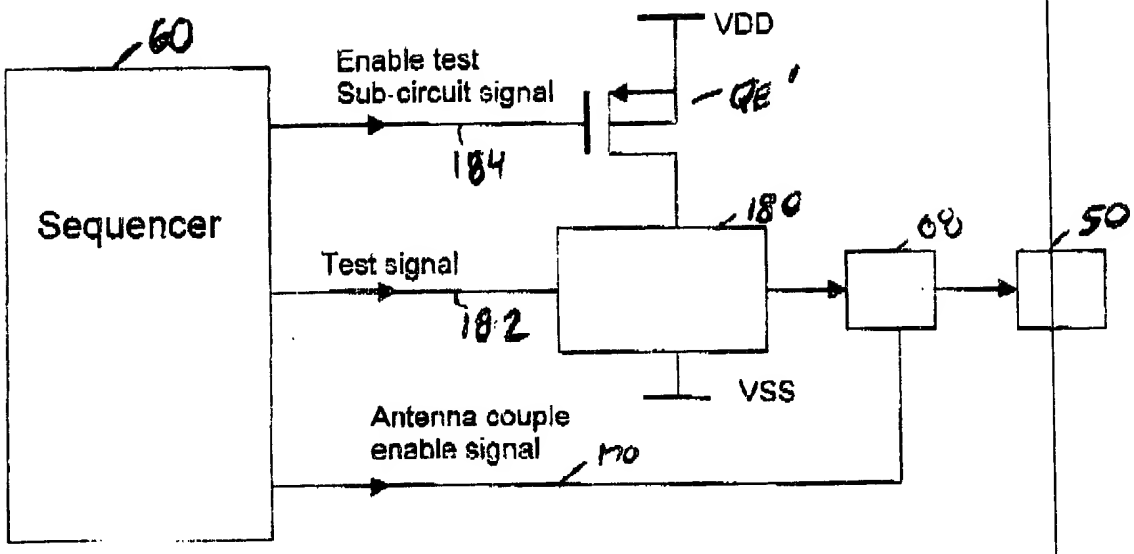
60
Sequencer
Enable test
Sub-circuit signal
184
VDD
QE'
180
Test signal
182
68
50
VSS
Antenna couple
enable signal
110

FIGURE 29

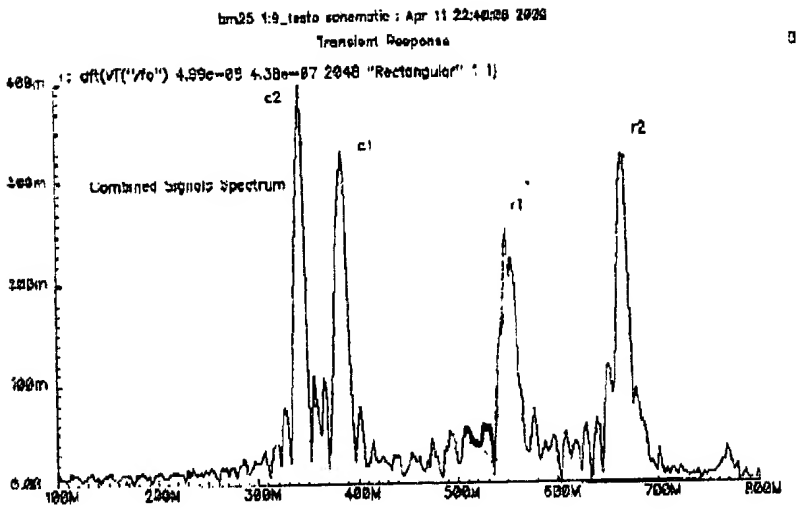
bm25 1:9_testo schematic : Apr 11 22:40:28 2022
Transient Response
dft(VT("/Vo") 4.99e-09 4.38e-07 2048 "Rectangular" 1)
Combined Signals Spectrum
c2
c1
r1
r2
400m
300m
200m
100m
0.00
100M
200M
300M
400M
500M
600M
700M
800M

FIGURE 30a

sc982 Sinvaa schematic : Mar 26 19:55:38 2000

Transient Response

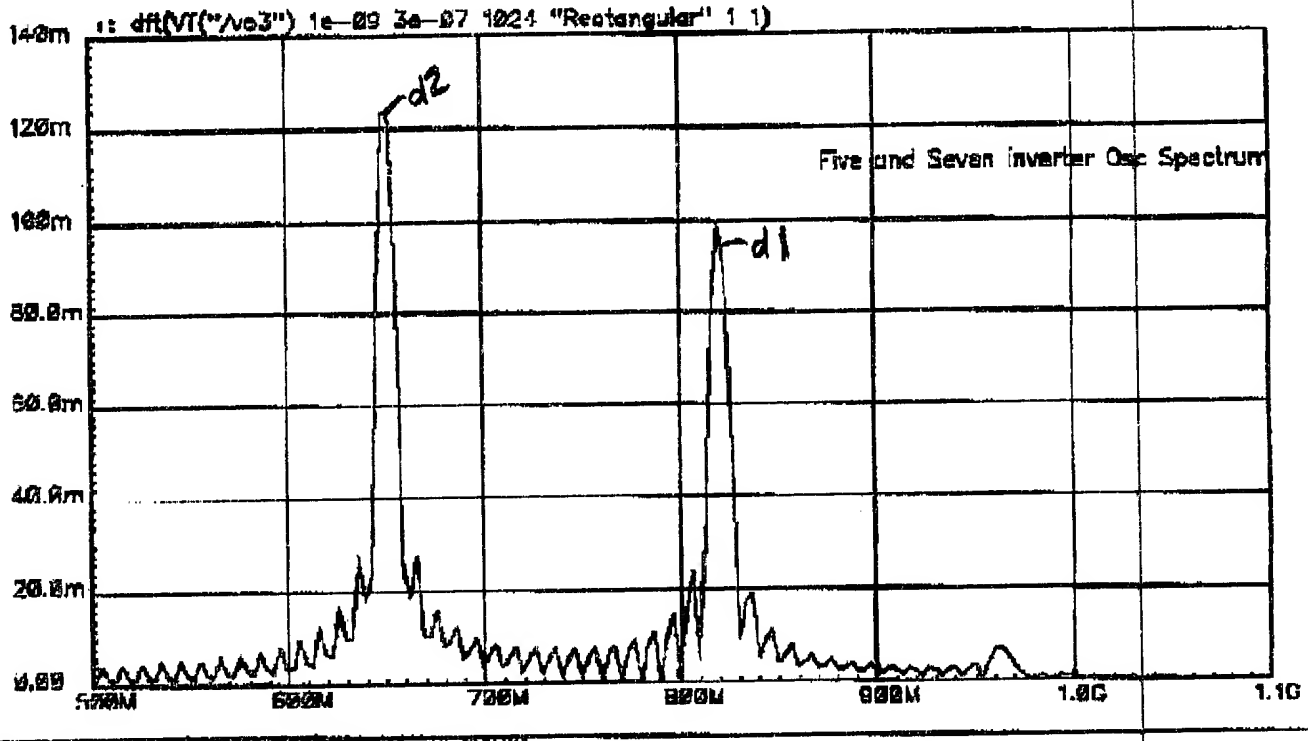

Figure 30b

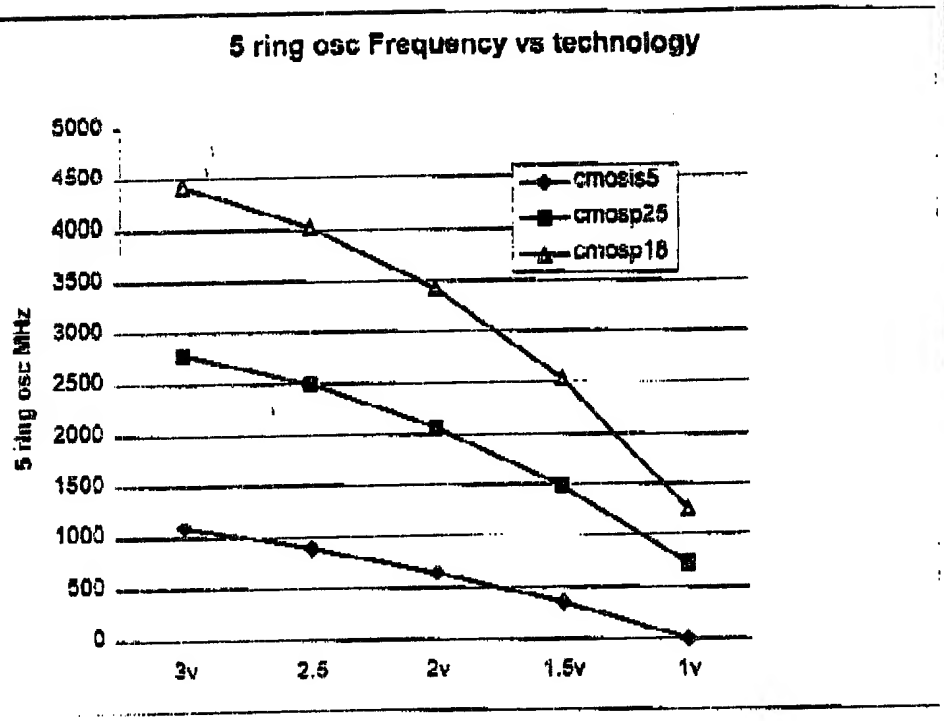
5 ring osc Frequency vs technology
5 ring osc MHz
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
3v
2.5
2v
1.5v
1v
cmosis5
cmosp25
cmosp18

FIGURE 31